

17DM4A

Half-Wave Vacuum Rectifier

For Television Damper Service

Electrical:

Heater Characteristics and Ratings:

Current	0.450 ± 0.030	amp
Voltage (AC or DC) at heater amperes = 0.450	16.8	volts
Warm-up time (Average)	11	sec

Maximum heater-cathode voltage:

Heater negative with respect to cathode^a

Peak	5000	volts
DC component	900	volts

Heater positive with respect to cathode

Peak	300	volts
DC component	100	volts

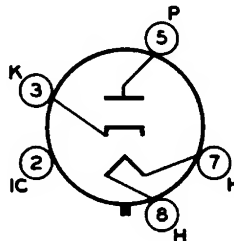
Direct Interelectrode Capacitances (Approx.):

P to (K,H)	8.5	pf
K to (P,H)	11.5	pf
Heater to cathode	4.0	pf

Mechanical:

Operating Position	Any
Type of Cathode	Coated Unipotential
Maximum Overall Length	3-13/16"
Maximum Seated Length	3-1/4"
Maximum Diameter	1-9/32"
Bulb	T9
Base	Short Intermediate-Shell Octal 5-Pin (JEDEC No. B5-85)
Basing Designation for BOTTOM VIEW	4CG

Pin 2 - Do Not Use^b
Pin 3 - Cathode
Pin 5 - Plate
Pin 7 - Heater
Pin 8 - Heater



DAMPER SERVICE

Maximum Ratings, Design-Maximum Values:

For operation in a 525-line, 30-frame system^c

Peak Inverse Plate Voltage ^a	5000	volts
Peak Plate Current	1200	ma
DC Plate Current	200	ma
Plate Dissipation	6.5	watts

Characteristics, Instantaneous Value:

Tube Voltage Drop for plate ma = 400	35	volts
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^a This rating is applicable when the duty cycle of the voltage pulse does not exceed 15 per cent of one horizontal scanning cycle. In a 525-line, 30 frame system, 15 per cent of one horizontal scanning cycle is 10 microseconds.



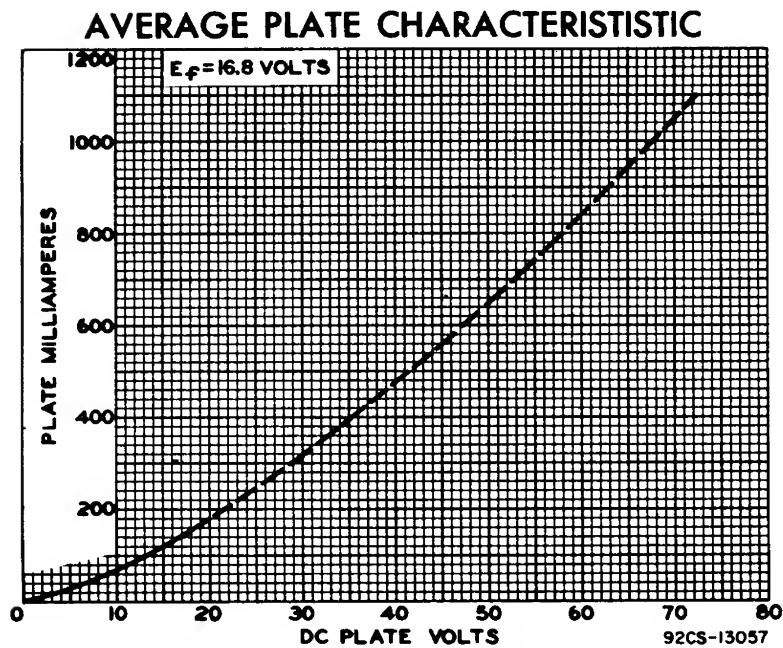
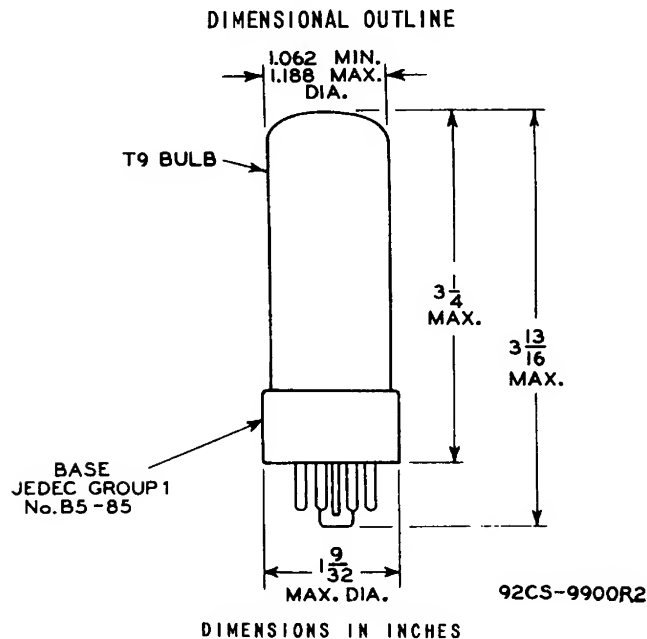
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- ^b Socket terminals 1, 2, 4 and 6 should not be used as tie points.
^c As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.



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